

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/541,771

Source: P4710

Date Processed by STIC: 7/19/05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 07/19/2005

PATENT APPLICATION: US/10/541,771

TIME: 15:25:13

Input Set : A:\PTO.YF.txt

Output Set: N:\CRF4\07192005\J541771.raw

```

7 <110> APPLICANT: The Wistar Institute
8      Gerhard , Walter
9      Otvos, Laszlo
11 <120> TITLE OF INVENTION: COMPOSITION AND METHOD FOR PREVENTING OR TREATING A VIRUS
12      INFECTION
14 <130> FILE REFERENCE: WSTR-0017C
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/541,771
C--> 16 <141> CURRENT FILING DATE: 2005-07-08
16 <150> PRIOR APPLICATION NUMBER: US 60/441,374
17 <151> PRIOR FILING DATE: 2003-01-16
19 <160> NUMBER OF SEQ ID NOS: 10
21 <170> SOFTWARE: PatentIn version 3.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 5
26 <212> TYPE: PRT
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Synthetic multiple antigenic agent
32 <220> FEATURE:
34 <221> NAME/KEY: MISC_FEATURE
35 <222> LOCATION: (1)..(1)
36 <223> OTHER INFORMATION: N-terminal amino group has attached R1 which is 0 to 2 amino
acid
37      residues, wherein said amino acid residue may be a Gly or Cys, or a nucleic
38      acid sequence.
40 <220> FEATURE:
41 <221> NAME/KEY: MISC_FEATURE
42 <222> LOCATION: (1)..(1)
43 <223> OTHER INFORMATION: Side chain amino group has attached R2 which is a B cell
determinant, a T
44      cell determinant, or a targeting molecule.
46 <220> FEATURE:
47 <221> NAME/KEY: MISC_FEATURE
48 <222> LOCATION: (3)..(3)
49 <223> OTHER INFORMATION: Side chain amino group has attached R3 which is a B cell
determinant, a T
50      cell determinant, or a targeting molecule.
52 <220> FEATURE:
53 <221> NAME/KEY: MISC_FEATURE
54 <222> LOCATION: (5)..(5)
55 <223> OTHER INFORMATION: "Xaa" represents 0 to 1 amino acid residue of Lys-R4, wherein
R4
56      is a B cell determinant, a T cell determinant, or a targeting molecule.
58 <220> FEATURE:

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59 <221> NAME/KEY: MISC_FEATURE

60 <222> LOCATION: (5)..(5)

62 <223> OTHER INFORMATION: C-terminus has attached R5 group which is an amino acid, peptide, or

3

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63      nucleic acid sequence.
65 <400> SEQUENCE: 1
W--> 66 Lys Gly Lys Gly Xaa
67 1      5
70 <210> SEQ ID NO: 2
71 <211> LENGTH: 14
72 <212> TYPE: PRT
73 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: Synthetic multiple antigenic agent
78 <220> FEATURE:
79 <221> NAME/KEY: MISC_FEATURE
80 <222> LOCATION: (1)..(1)
81 <223> OTHER INFORMATION: Mannosylated residue
83 <220> FEATURE:
84 <221> NAME/KEY: MISC_FEATURE
85 <222> LOCATION: (2)..(2)
86 <223> OTHER INFORMATION: Mannosylated serine residue attached to side chain amino
group
88 <220> FEATURE:
89 <221> NAME/KEY: MISC_FEATURE
90 <222> LOCATION: (4)..(4)
91 <223> OTHER INFORMATION: Mannosylated serine residue attached to side chain amino
group
93 <220> FEATURE:
94 <221> NAME/KEY: MISC_FEATURE
95 <222> LOCATION: (6)..(6)
96 <223> OTHER INFORMATION: Mannosylated serine residue attached to side chain amino
group
98 <220> FEATURE:
99 <221> NAME/KEY: MISC_FEATURE
100 <222> LOCATION: (8)..(8)
101 <223> OTHER INFORMATION: S2 peptide attached to side chain amino group
103 <220> FEATURE:
104 <221> NAME/KEY: MISC_FEATURE
105 <222> LOCATION: (10)..(10)
106 <223> OTHER INFORMATION: S1 peptide attached to side chain amino group
108 <220> FEATURE:
109 <221> NAME/KEY: MISC_FEATURE
110 <222> LOCATION: (12)..(12)
111 <223> OTHER INFORMATION: M2e peptide attached to side chain amino group
113 <400> SEQUENCE: 2
114 Ser Lys Gly Lys Gly Lys Gly Lys Gly Lys Gly Ala
115 1      5      10
118 <210> SEQ ID NO: 3
119 <211> LENGTH: 13
120 <212> TYPE: PRT
122 <213> ORGANISM: Artificial Sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: Synthetic multiple antigenic agent
127 <220> FEATURE:
128 <221> NAME/KEY: MISC_FEATURE

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129 <222> LOCATION: (3)..(3)
130 <223> OTHER INFORMATION: Serine attached to side chain amino group
132 <220> FEATURE:
133 <221> NAME/KEY: MISC_FEATURE
134 <222> LOCATION: (5)..(5)
135 <223> OTHER INFORMATION: Serine attached to side chain amino group
137 <220> FEATURE:
138 <221> NAME/KEY: MISC_FEATURE
139 <222> LOCATION: (7)..(7)
140 <223> OTHER INFORMATION: S2 peptide attached to side chain amino group
142 <220> FEATURE:
143 <221> NAME/KEY: MISC_FEATURE
144 <222> LOCATION: (9)..(9)
145 <223> OTHER INFORMATION: S1 peptide attached to side chain amino group
147 <220> FEATURE:
148 <221> NAME/KEY: MISC_FEATURE
149 <222> LOCATION: (11)..(11)
150 <223> OTHER INFORMATION: M2e peptide attached to side chain amino group
152 <400> SEQUENCE: 3
153 Lys Gly Lys Gly Lys Gly Lys Gly Lys Gly Lys Gly Ala
154 1          5          10
157 <210> SEQ ID NO: 4
158 <211> LENGTH: 12
159 <212> TYPE: PRT
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Synthetic multiple antigenic agent
165 <220> FEATURE:
166 <221> NAME/KEY: MISC_FEATURE
167 <222> LOCATION: (2)..(2)
168 <223> OTHER INFORMATION: Serine residue attached to side chain
170 <220> FEATURE:
171 <221> NAME/KEY: MISC_FEATURE
172 <222> LOCATION: (4)..(4)
173 <223> OTHER INFORMATION: S2 peptide attached to side chain amino group
175 <220> FEATURE:
176 <221> NAME/KEY: MISC_FEATURE
177 <222> LOCATION: (6)..(6)
178 <223> OTHER INFORMATION: S1 peptide attached to side chain amino group
181 <220> FEATURE:
183 <221> NAME/KEY: MISC_FEATURE
184 <222> LOCATION: (8)..(8)
185 <223> OTHER INFORMATION: M2e peptide attached to side chain amino group
187 <220> FEATURE:
188 <221> NAME/KEY: MISC_FEATURE
189 <222> LOCATION: (10)..(10)
190 <223> OTHER INFORMATION: M2e peptide attached to side chain amino group
192 <400> SEQUENCE: 4
193 Ser Cys Gly Lys Gly Lys Gly Lys Gly Lys Gly Ala

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194 1          5          10
197 <210> SEQ ID NO: 5
198 <211> LENGTH: 11
199 <212> TYPE: PRT
200 <213> ORGANISM: Artificial Sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Synthetic multiple antigenic agent
205 <220> FEATURE:
206 <221> NAME/KEY: MISC_FEATURE
207 <222> LOCATION: (1)..(1)
208 <223> OTHER INFORMATION: Dimer created by disulfide linkage
210 <220> FEATURE:
211 <221> NAME/KEY: MISC_FEATURE
212 <222> LOCATION: (3)..(3)
213 <223> OTHER INFORMATION: S2 peptide attached to side chain amino group
215 <220> FEATURE:
216 <221> NAME/KEY: MISC_FEATURE
217 <222> LOCATION: (5)..(5)
218 <223> OTHER INFORMATION: S1 peptide attached to side chain amino group
220 <220> FEATURE:
221 <221> NAME/KEY: MISC_FEATURE
222 <222> LOCATION: (7)..(7)
223 <223> OTHER INFORMATION: M2e peptide attached to side chain amino group
225 <220> FEATURE:
226 <221> NAME/KEY: MISC_FEATURE
227 <222> LOCATION: (9)..(9)
228 <223> OTHER INFORMATION: M2e peptide attached to side chain amino group
230 <400> SEQUENCE: 5
231 Cys Gly Lys Gly Lys Gly Lys Gly Ala
232 1          5          10
235 <210> SEQ ID NO: 6
236 <211> LENGTH: 8
237 <212> TYPE: PRT
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Synthetic multiple antigenic agent
243 <400> SEQUENCE: 6
244 Cys Gly Lys Gly Lys Gly Lys Ala
245 1          5
248 <210> SEQ ID NO: 7
249 <211> LENGTH: 8
250 <212> TYPE: PRT
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Synthetic multiple antigenic agent
256 <220> FEATURE:
257 <221> NAME/KEY: MISC_FEATURE
258 <222> LOCATION: (3)..(3)
259 <223> OTHER INFORMATION: M2e petide attached to side chain amino group

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261 <220> FEATURE:
 262 <221> NAME/KEY: MISC_FEATURE
 263 <222> LOCATION: (5)..(5)
 264 <223> OTHER INFORMATION: M2e petide attached to side chain amino group
 266 <400> SEQUENCE: 7
 267 Cys Gly Lys Gly Lys Gly Lys Ala
 268 1 5
 271 <210> SEQ ID NO: 8
 272 <211> LENGTH: 11
 273 <212> TYPE: PRT
 274 <213> ORGANISM: Artificial Sequence
 276 <220> FEATURE:
 277 <223> OTHER INFORMATION: Synthetic S1 peptide
 279 <400> SEQUENCE: 8
 280 Ser Phe Glu Arg Phe Glu Ile Phe Pro Lys Glu
 281 1 5 10
 284 <210> SEQ ID NO: 9
 285 <211> LENGTH: 13
 286 <212> TYPE: PRT
 287 <213> ORGANISM: Artificial Sequence
 289 <220> FEATURE:
 290 <223> OTHER INFORMATION: Synthetic S2 peptide
 292 <400> SEQUENCE: 9
 293 His Asn Thr Asn Gly Val Thr Ala Ala Ser Ser His Glu
 294 1 5 10
 297 <210> SEQ ID NO: 10
 298 <211> LENGTH: 24
 299 <212> TYPE: PRT
 300 <213> ORGANISM: Artificial Sequence
 303 <220> FEATURE:
 304 <223> OTHER INFORMATION: Synthetic M2e peptide
 306 <400> SEQUENCE: 10
 307 Ser Leu Leu Thr Glu Val Glu Thr Pro Ile Arg Asn Glu Trp Gly Cys
 308 1 5 10 15
 310 Arg Ser Asn Asp Ser Ser Asp Pro
 311 20

RAW SEQUENCE LISTING ERROR SUMMARY

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 5

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 37,43,49

VERIFICATION SUMMARY

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L:16 M:270 C: Current Application Number differs, Replaced Current Application No

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0